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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631,043	07/29/2003	Charbel Khawand	CE11194JI211	9272
22917 7590 11/15/2007 MOTOROLA, INC. 1303 EAST ALGONQUIN ROAD IL01/3RD SCHAUMBURG, IL 60196			EXAMINER WIDHALM, ANGELA M	
			ART UNIT 2152	PAPER NUMBER
			NOTIFICATION DATE 11/15/2007	DELIVERY MODE ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Docketing.Schaumburg@motorola.com  
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## Office Action Summary

Application No.

10/631,043

Applicant(s)

KHAWAND, CHARBEL

Examiner

Angela Widhalm

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 29 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>14 March 2006</u>   | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

1. The claims 1-20 are pending in this application. This is a non-final office action in response to Application Number 10/631,043 filed on 29 July 2003.

#### ***Information Disclosure Statement***

2. The information disclosure statement (IDS) submitted on 14 March 2006 was filed after the mailing date of the application on 29 July 2003. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

#### ***Summary of Claimed Invention***

3. The claimed invention relates to an interprocessor communication network in which messages are sent to a recipient based on a filtering table, quality of service requirements, and message priority. The filtering table is used to determine where a message is to be sent based on message type. The server and client are able to negotiate the contents of the filtering table. There is also a buffer that temporarily stores messages to be sent. In which, in the same field of endeavor, the applied references teach the same.

#### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Huang et al. (U.S. Patent Publication 2004/0073701), hereafter referred to as Huang.

6. Regarding claim 1, Huang described an interprocessor communication (IPC) network, comprising:

an IPC client; a component coupled to the IPC client; an IPC server coupled to the IPC client (see fig. 1-3, [0050]),

the IPC server including at least one filtering table for use in determining where a message sent by the component needs to be sent (see fig. 1 and 13, [0040], [0042]: *If sent messages satisfy the filter, the messages are routed to the appropriate subscriber*).

7. Regarding claim 2, Huang disclosed wherein messages from the component comprises opcode and the at least one filtering table uses the opcode to determine where the message sent by the component needs to be sent (see [0043]-[0045], [0090]-[0092], [0096]: *the filter table contains events subscribers are interested in receiving*).

8. Regarding claim 3, Huang disclosed wherein the IPC client and the IPC server can negotiate the contents of the at least one filtering table (see [0085], [0087]: *an agent*

*at the subscriber machine communicates with network elements to determine available channels and subscription options to set up the subscription filter).*

9. Regarding claim 4, Huang disclosed wherein the at least one filtering table links the opcode to the component and any additional components that are associated with the opcode (see [0092]: *events and nodes are linked together in the filter table*).

10. Regarding claim 5, Huang disclosed wherein the IPC client further comprises a filtering table (see [0040], [0046], [0127]: *filtering may be determined at the subscriber's agent. Subscription information may be stored at any network node, including the publisher, the subscriber, and routers*).

11. Regarding claim 6, Huang disclosed wherein the filtering table located in the IPC client determines if messages should be received by the component (see [0040], [0072]: *application agents decide whether the notification is relevant to their subscribers*).

12. Regarding claim 7, Huang disclosed a second component coupled to the IPC client wherein the filtering table in the client determines whether any of the first and second component coupled to the IPC client should receive a message sent to the IPC client (see [0040], [0049], [0090]-[0092], [0096]).

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13. Regarding claim 8, Huang disclosed wherein the IPC server further comprises a filter table for each IPC client coupled to the IPC server (see [0046], [0051], [0092]).

14. Regarding claims 9-11, the claims are rejected according to the same prior art as claims 2-4 respectively.

15. Regarding claim 12, Huang disclosed wherein the opcode is associated with a particular type of service (see [0043]-[0045], [0090]-[0092]: *the filter table contains events subscribers are interested in receiving*).

16. Huang disclosed an InterProcessor communications (IPC) network, comprising:  
an IPC stack having a presentation manager (see fig. 7, [0063]-[0064], [0108]: *The agent translates data structures into a form readable by the next network element*),  
a IPC session manager (see fig. 7, [0063]-[0064]: *The libraries log events, cache data, and store channels and assignment information*) and a device interface layer (see fig. 7, [0063]-[0064]: *The dispatcher library also provides connections to other network components*);

a component coupled to the IPC stack, the component being assigned a channel based on a Quality of Service (QoS) (see fig. 7, 17, [0009], [0133]: *channels are selected based on quality of service requirements*);

an IPC scheduler coupled to the device interface layer; (see fig. 7, [0072], [0074]-[0075], [0085]: *channel manager is connected to the dispatcher library. Additionally, routing may occur at the application or kernel layer*)

wherein the IPC scheduler is responsible for providing the QoS assigned to the channel (see [0060], [0082], [0085], [0133]-[0134]: *channel managers select channels and ensure that the quality of service requirements are met*).

17. Regarding claim 14, Huang disclosed wherein the IPC scheduler secures a data rate required by the channel (see [0009], [0133]: *bandwidth is assigned based on quality of service*).

18. Regarding claim 15, Huang disclosed a channel buffer coupled to the channel, the channel buffer storing data that is to be sent via the channel (see fig. 14, [0056], [0073], [0103]-[0104]: *caching data*).

19. Regarding claim 16, Huang disclosed wherein the IPC scheduler chooses enough data from the channel buffer to support the data rate required by the channel (see table 6, [0078]-[0079], [0082]: *only the amount of data that can be supported by the channel will be sent at a time*).

20. Regarding claim 17, Huang disclosed wherein the IPC scheduler scales the data that it picks from the channel buffer depending on a size of an IPC frame that is used by

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the IPC scheduler (see fig. 14, table 6, [0077]-[0079], [0082]: *Amount of data to be transmitted and the message size, i.e. IPC frame size, is taken into consideration when sending messages*).

21. Regarding claim 18, Huang disclosed wherein the IPC scheduler chooses the data from the channel buffer depending on a priority level of the channel (see [0009], [0138]: *priority routing for real-time alerts*).

22. Regarding claim 19, Huang disclosed wherein the channel assigned to the component is based on a QoS level required by the component (see [0134], [0139]: *the data packets generated for the customers with the highest quality of service requirements are routed to the link with the highest bandwidth*).

23. Regarding claim 20, Huang disclosed a port coupled to the component wherein the QoS is valid only when the component is using the port (see [0134]-[0135], [0138]-[0141]: *Channels are assigned to specific ports. The quality of service will be higher when sending messages on a higher bandwidth channel. When a lower bandwidth channel is used instead, the quality of service is different and the quality of service that was previously obtained on the higher bandwidth channel is no longer valid*).



***Conclusion***

24. **Examiner's Note:** Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

25. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela Widhalm whose telephone number is (571) 272-1035. The examiner can normally be reached M-F, 9:00 am - 5:30 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on (571) 272-3913. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

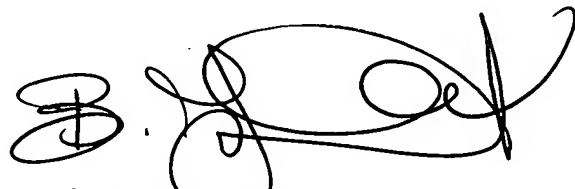
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Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Angela Widhalm  
Examiner  
Art Unit 2152  
9 November 2007

A handwritten signature in black ink, appearing to read 'B. Jaroenchonwanit', with a large, stylized flourish extending from the end.

BUNJOB JAROENCHONWANIT  
SUPERVISORY PATENT EXAMINER

11/9/07